

Laboratório:

Ambientes Computacionais e Conectividade

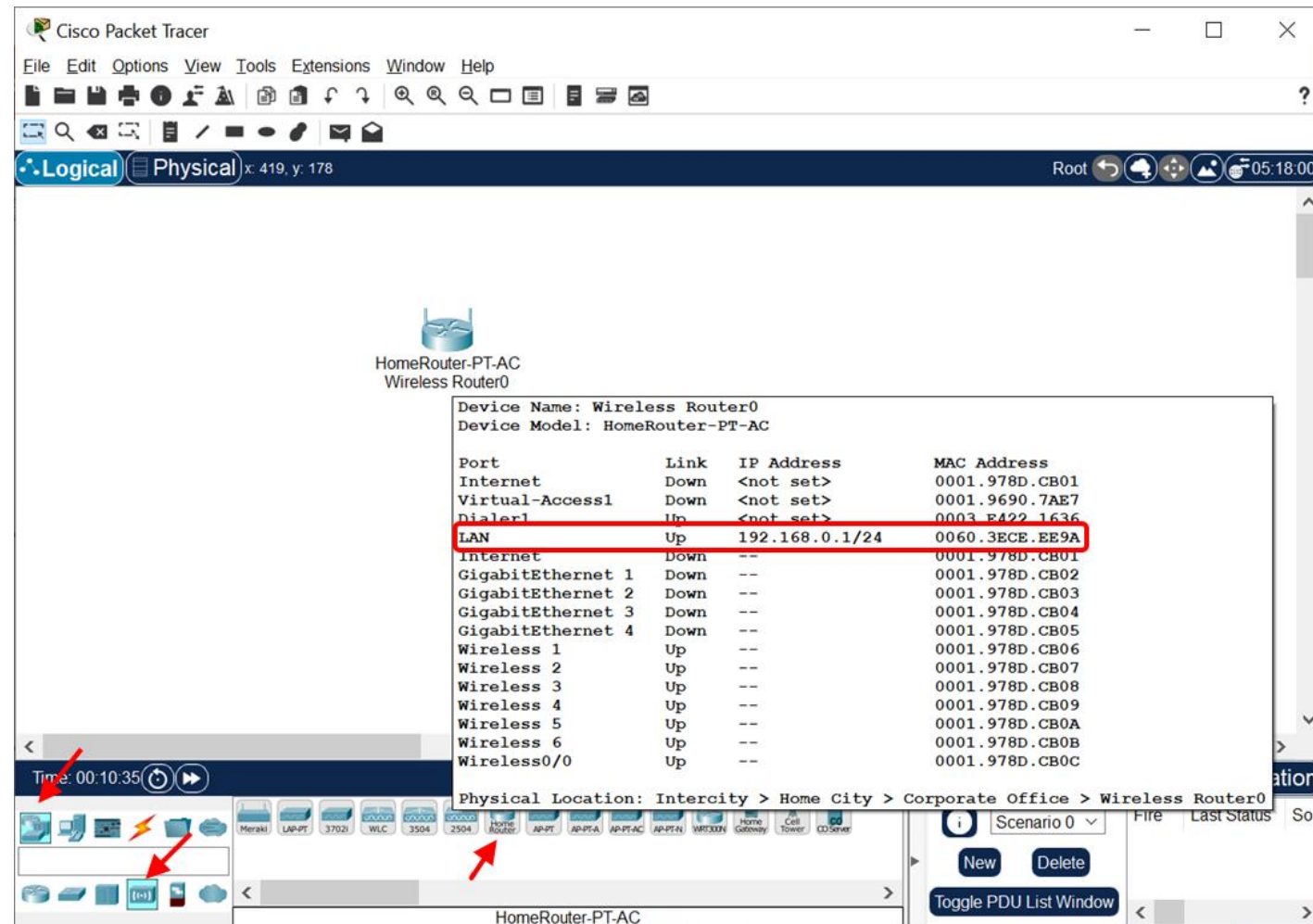
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(terça-feira)

2023/1

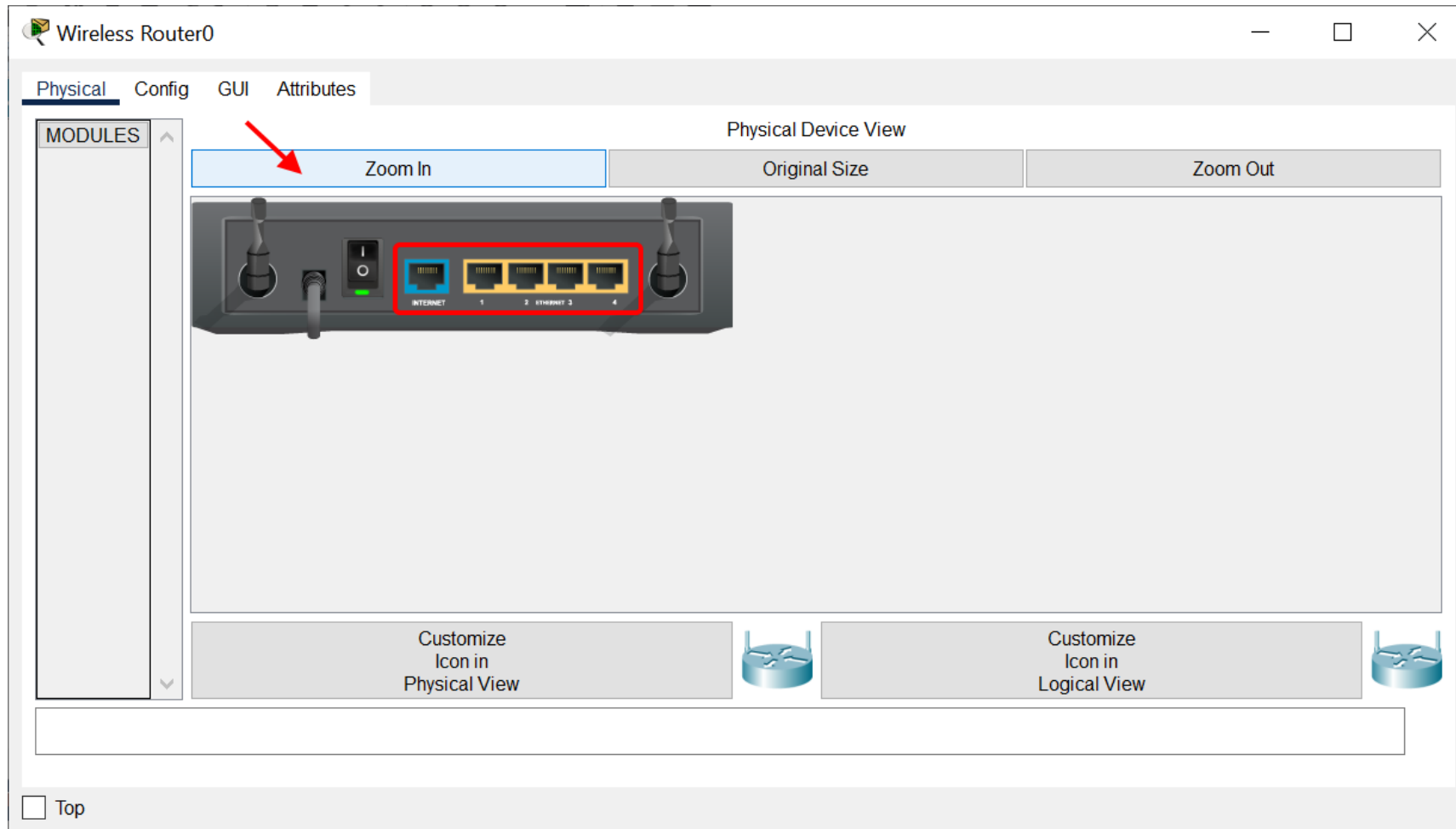
Configuração Access Point

- No painel de dispositivos do Packet Tracer , clique em **Network Device**, **Wireless Devices** e adicione um **HomeRouter-PT-AC**
- Arraste o mouse até o dispositivo. Observe que o endereço ip é **192.168.0./24**



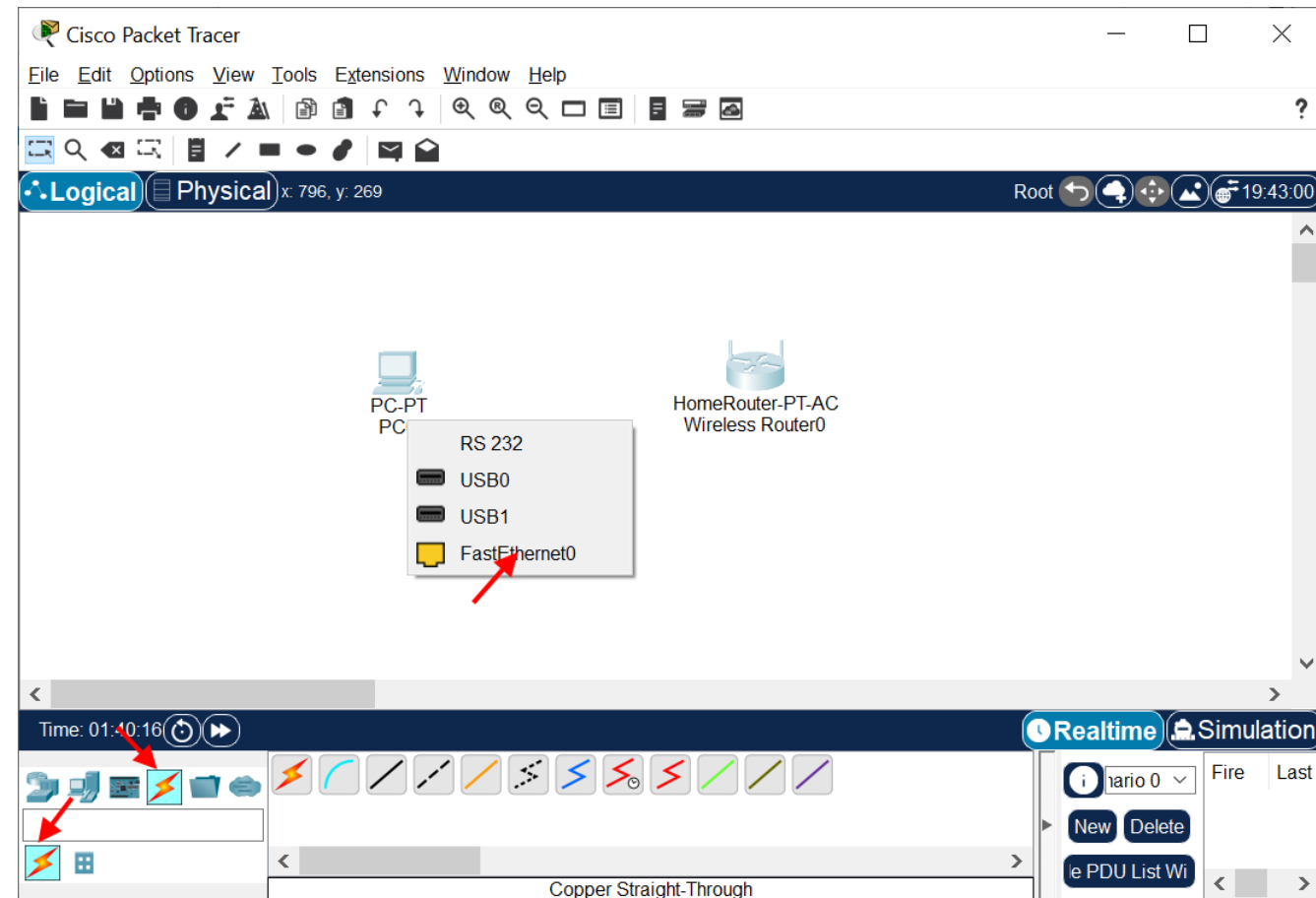
Configuração Access Point

- Clique no botão *Zoom In*
- Observe que o dispositivo tem uma porta WAN e quatro portas LAN



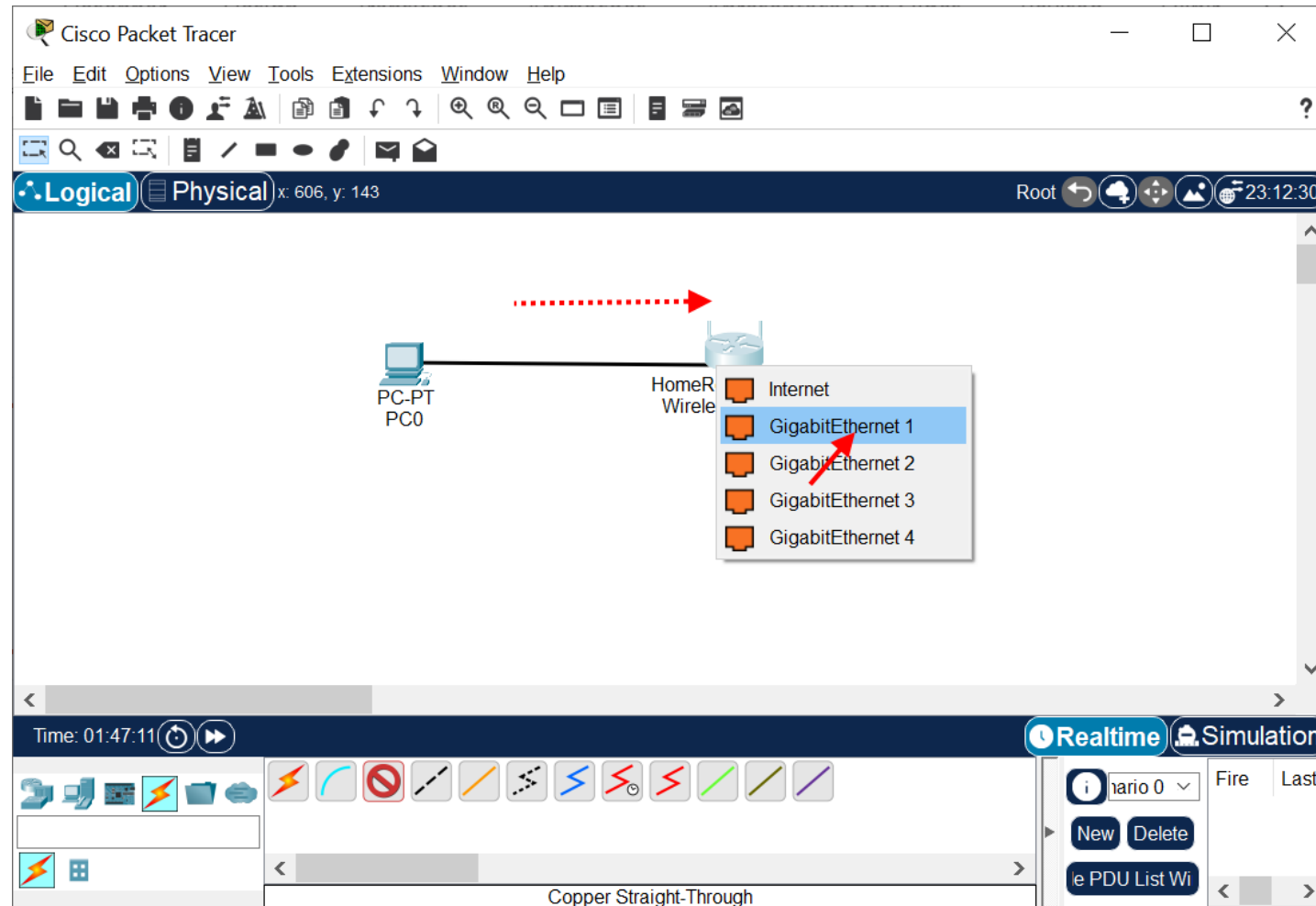
Configuração Access Point

- No painel de dispositivos, clique em **End Devices**, **End Devices** e adicione um **PC-AC**
- No painel de dispositivos, clique em **Connections**, **Connections**, **Cooper Straight-Through** e arraste o cabo até PC-AC
- Serão mostradas as interfaces de PC-AC. Clique na interface de rede **FastEthernet0**



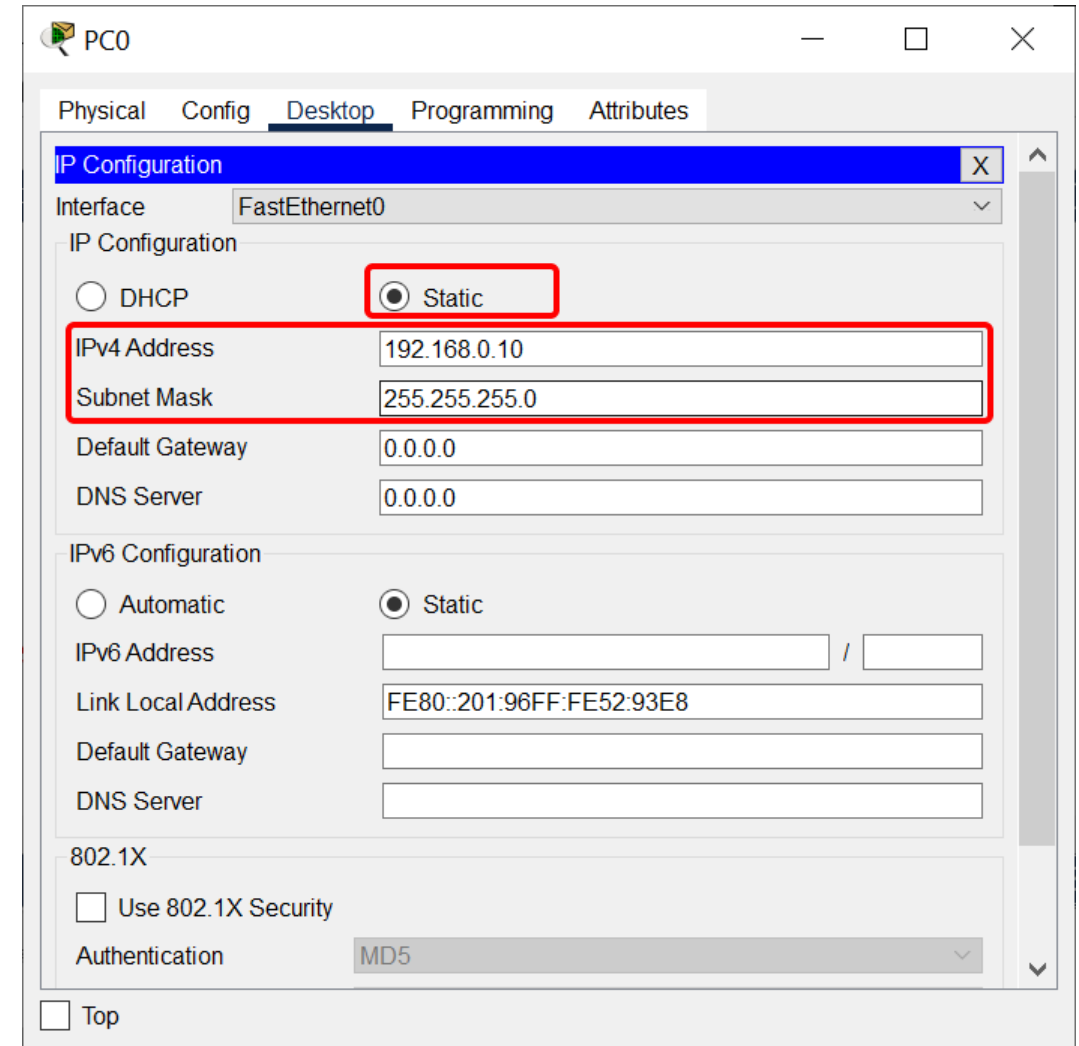
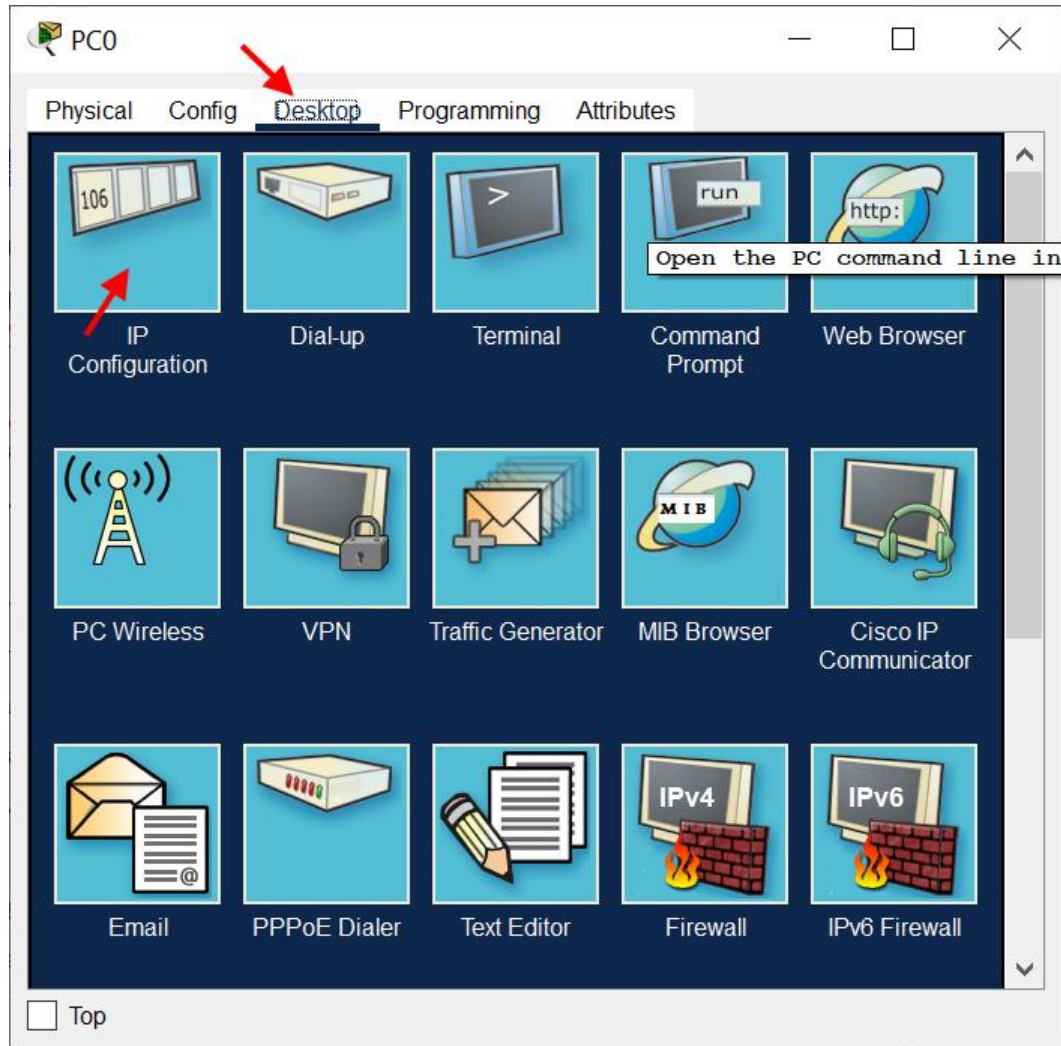
Configuração Access Point

- Arraste o cabo até **HomeRouter-PT-AC** e clique
- Serão mostradas as portas de HomeRouter-PT-AC. Clique na porta **GigabitEthernet 1**



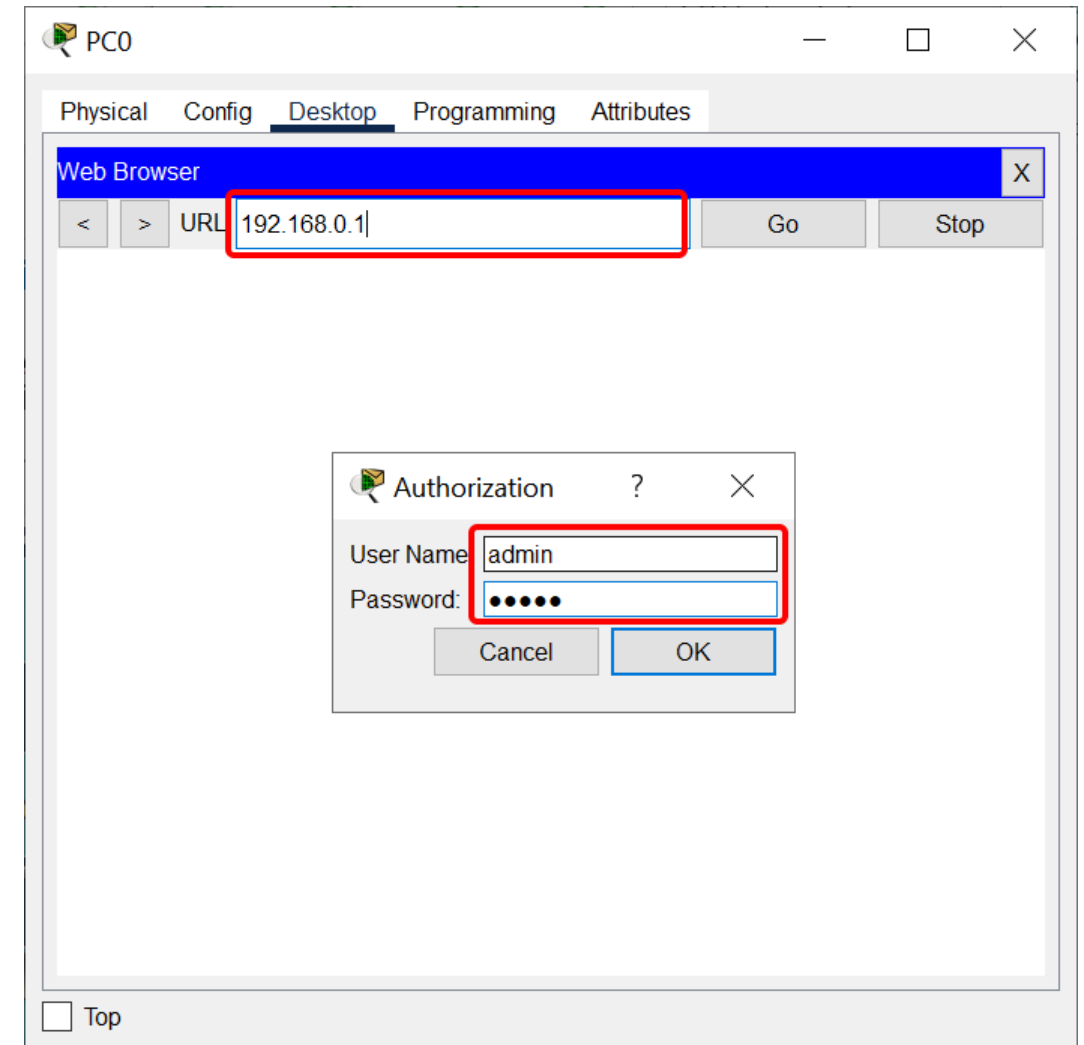
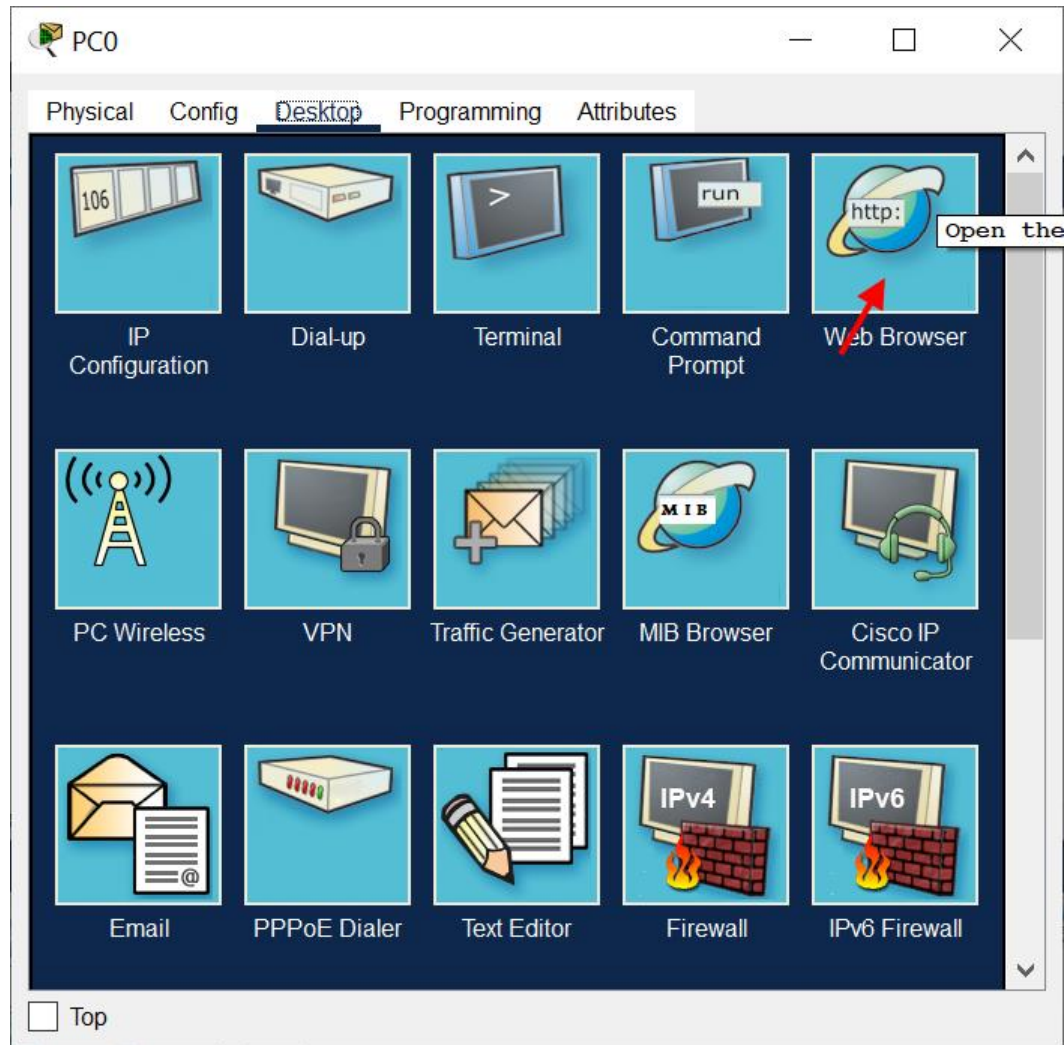
Configuração Access Point

- Dê um duplo clique no **PC-AC**, clique na aba **Desktop**, botão **IP Configuration**
- Marque a opção Static e defina o endereço IPv4 como 192.168.0.10 e a máscara 255.255.255.0



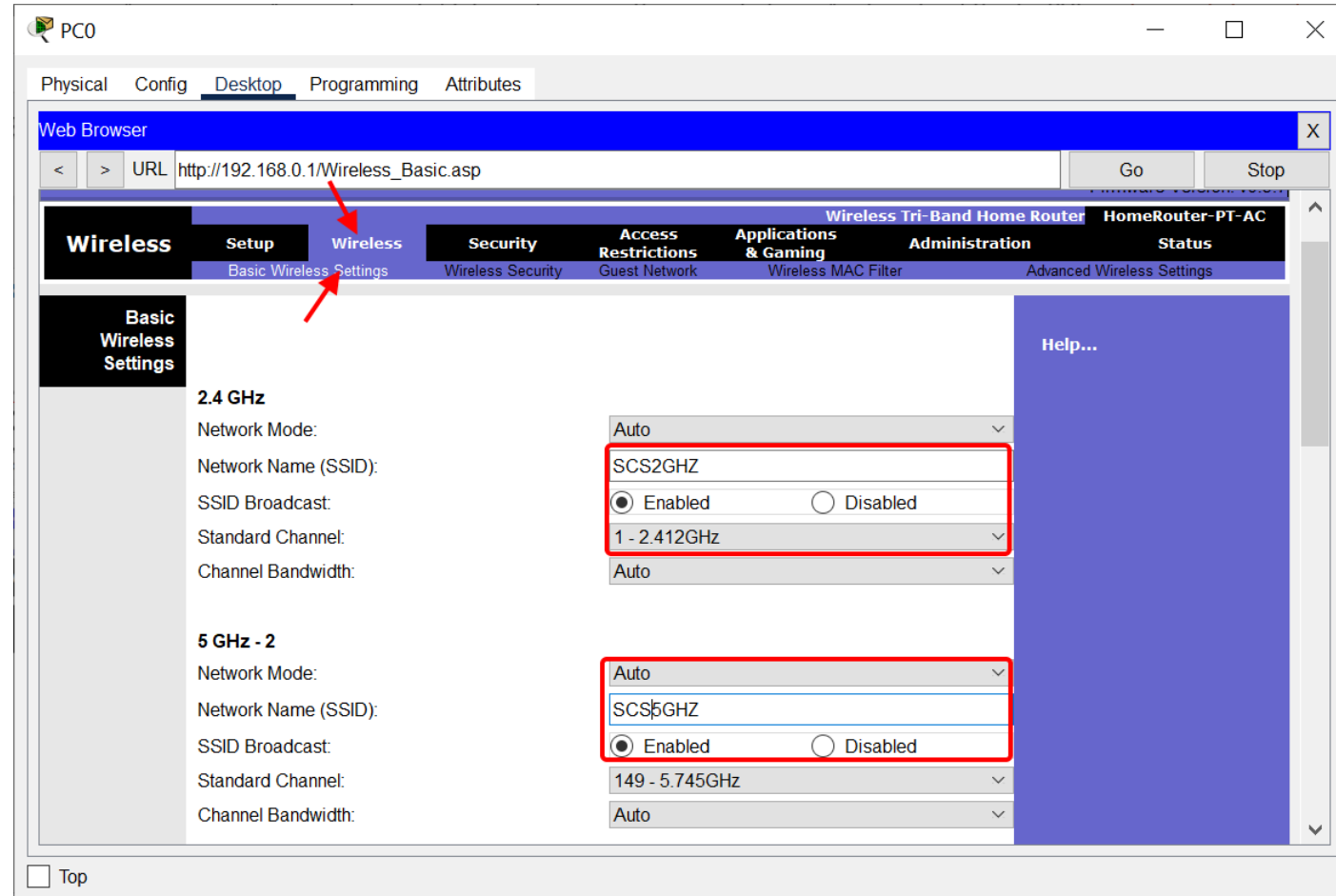
Configuração Access Point

- Clique em **Web Browser**, digite **192.168.0.1** pressione ENTER
- Digite usuário **admin**, senha **admin**



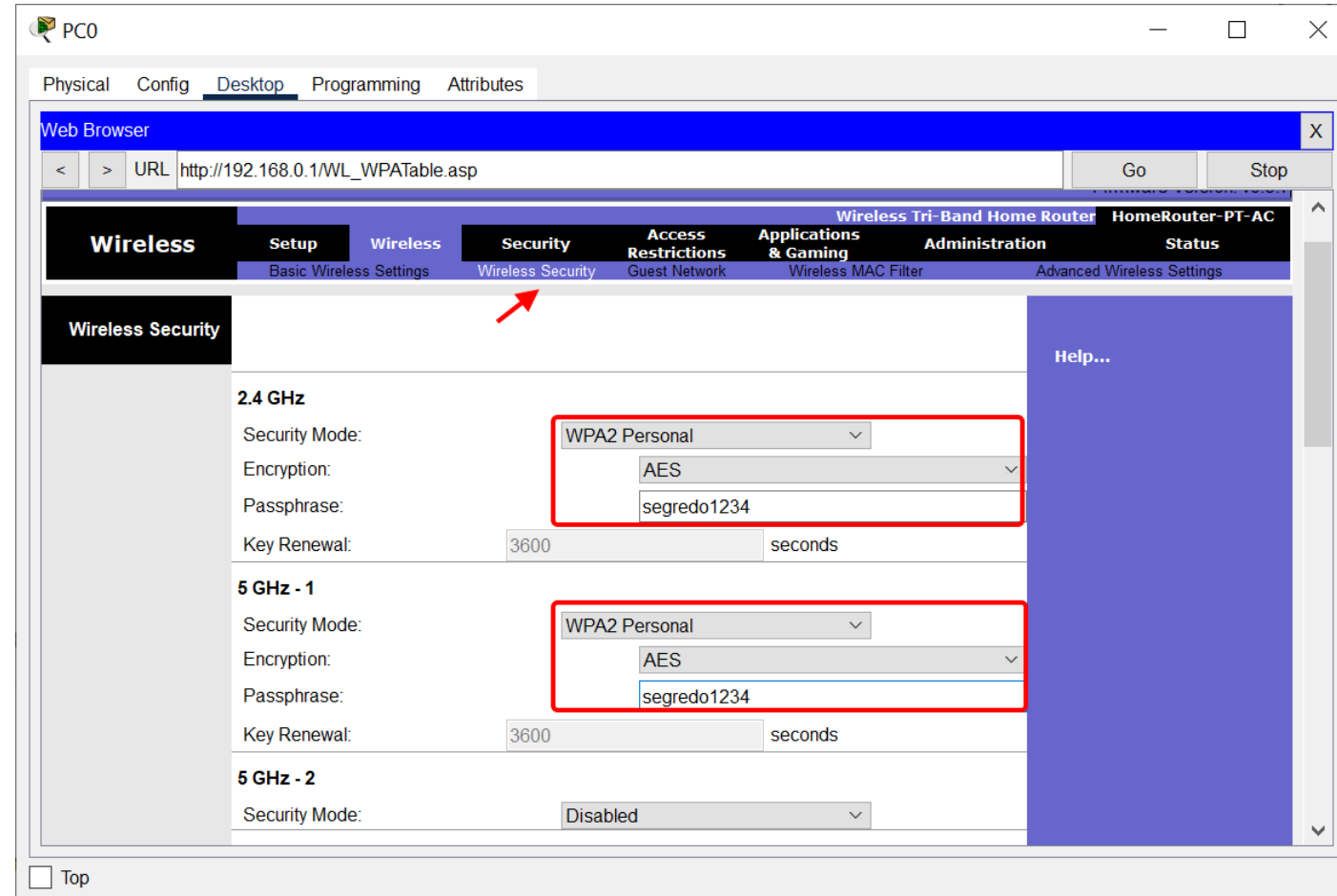
Configuração Access Point

- Clique em **Wireless, Basic Wireless Settings**
- Para 2.4GHz, configure SSID SCS2GHZ, canal 1
- Para 5GHZ, configure SSID SCS5GHZ, canal 149



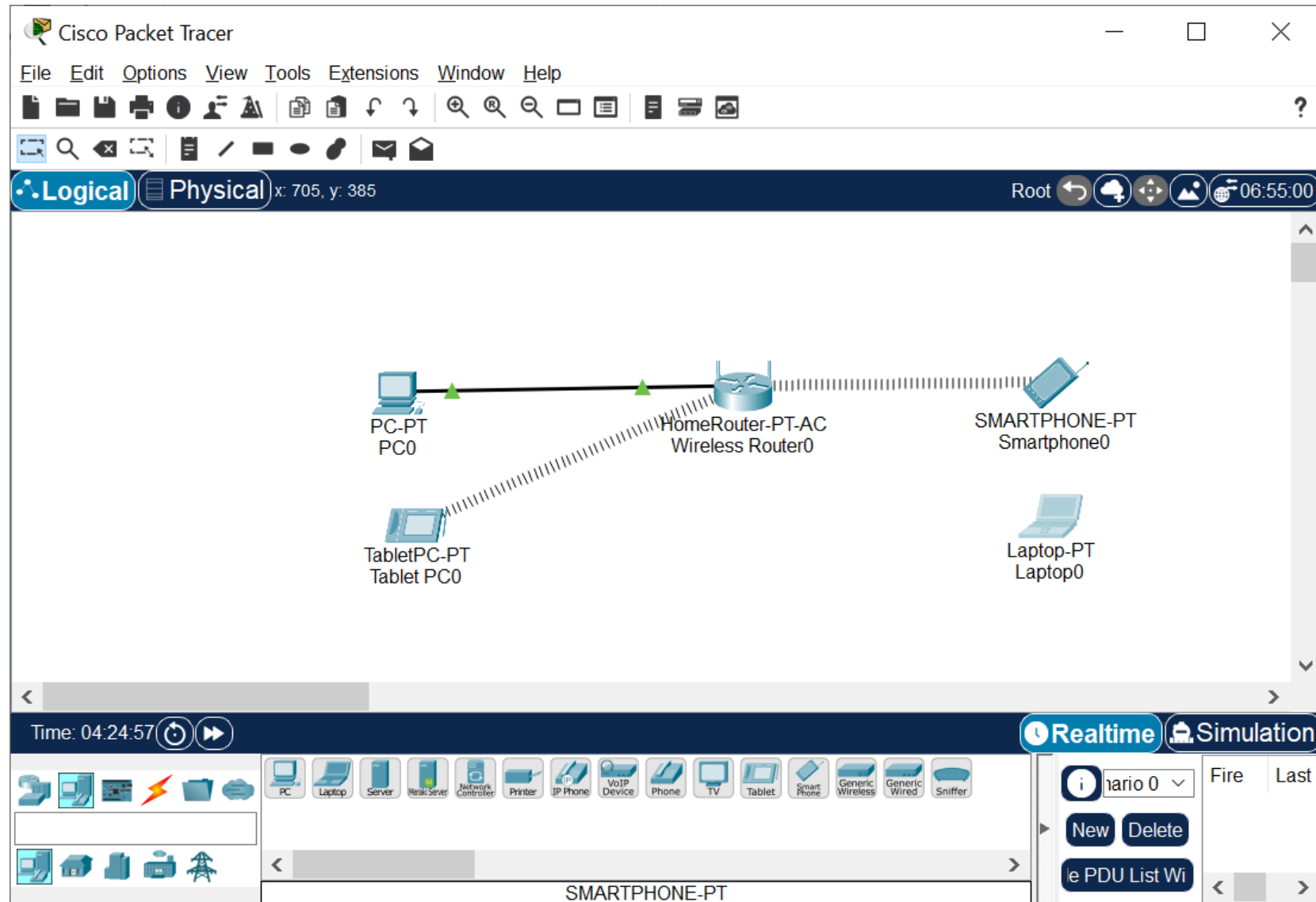
Configuração Access Point

- Clique em **Wireless Security**
- Para 2.4GHz e 5GHZ, configure algoritmo de criptografia **AES** e passphrase **segredo1234**



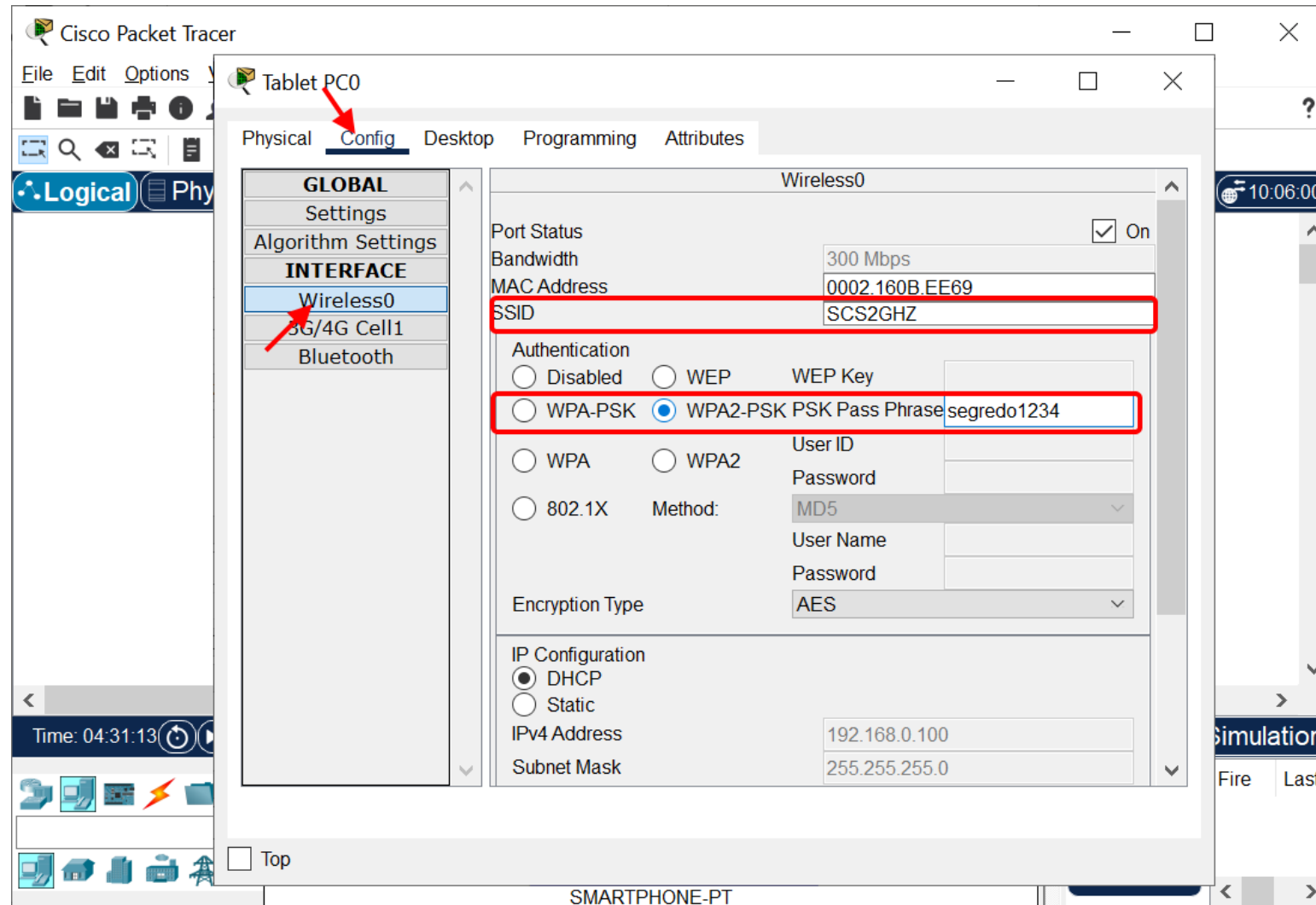
Configuração Access Point

- Adicione os dispositivos TabletPC-PT, Laptop-PT e Smartphone-PT



Configuração Access Point

- Dê um duplo clique no **TabletPC-PT** e configure a interface **wireless0** para acesso ao SSID **SCS2GHZ** com criptografia **WPA2**



Configuração Access Point

- Observe que o endereço ip do **TabletPC-PT** foi obtido automaticamente? Como é possível?

The image shows the Cisco Packet Tracer interface. In the top left, there's a menu bar with 'File', 'Edit', 'Options', 'View', 'Tools', 'Extensions', 'Window', and 'Help'. Below it is a toolbar with various icons. The main workspace is divided into 'Logical' and 'Physical' tabs. The 'Logical' tab is active, showing a network topology. A red arrow points to a 'Tablet PC0' device. The configuration window for 'Tablet PC0' is open, showing the following details:

Device Name: Tablet PC0
Device Model: TabletPC-PT

Port	Link	IP Address	IPv6 Address	MAC Address
Wireless0	Up	192.168.0.100/24	<not set>	0002.160B.EE69
5G/4G-cell1	Up	169.254.198.193/16	<not set>	00E0:A332:C6C1
Bluetooth	Down	<not set>	<not set>	000A.F360.4236

Below the table, the configuration shows:

Gateway: 192.168.0.1
DNS Server: <not set>
Line Number: <not set>

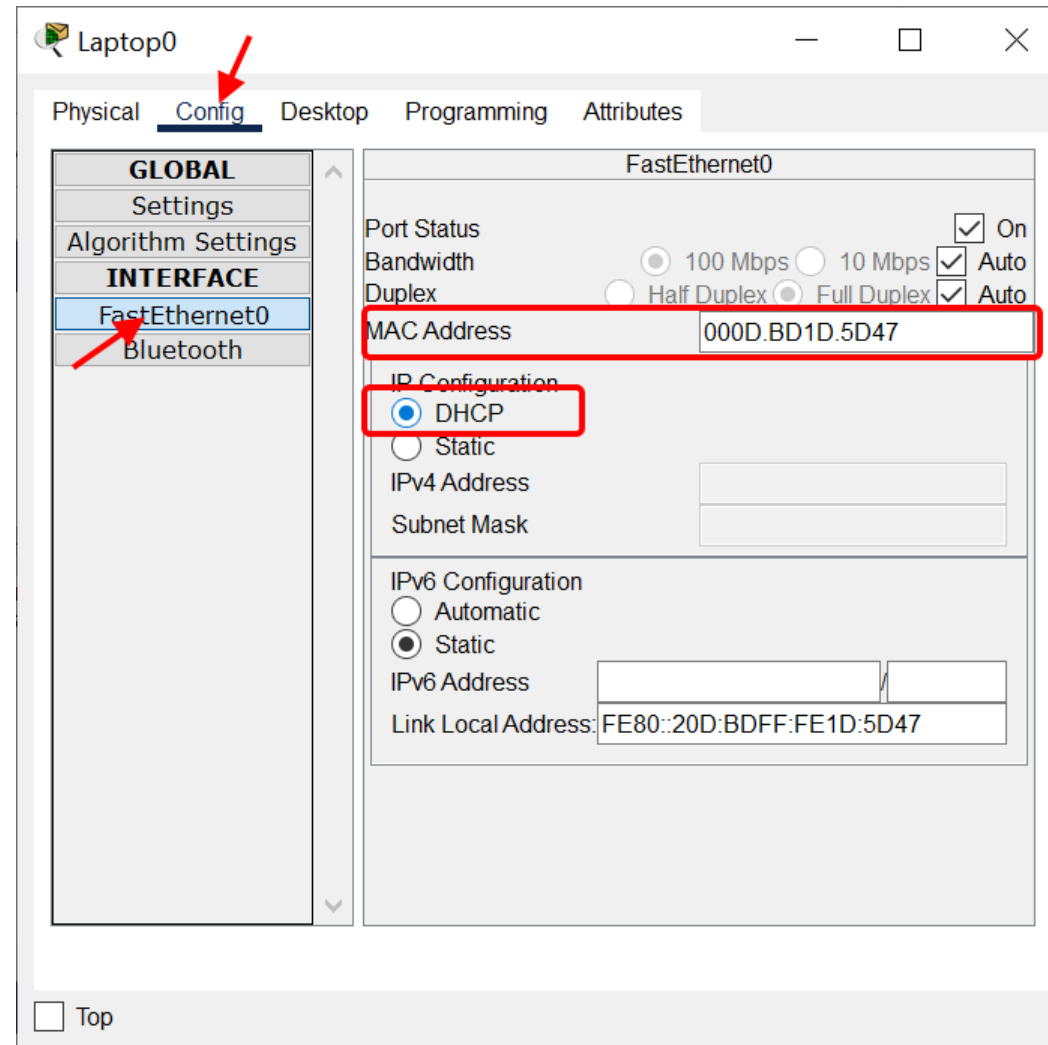
Wireless Best Data Rate: 300 Mbps
Wireless Signal Strength: 100%

Physical Location: Intercity > Home City > Corporate Office > Tablet PC0

The network topology shows a 'PC-PT' (PC0) connected to a 'HomeRouter-PT-AC' (Wireless Router0). A 'SMARTPHONE-PT' (Smartphone0) is also present in the network.

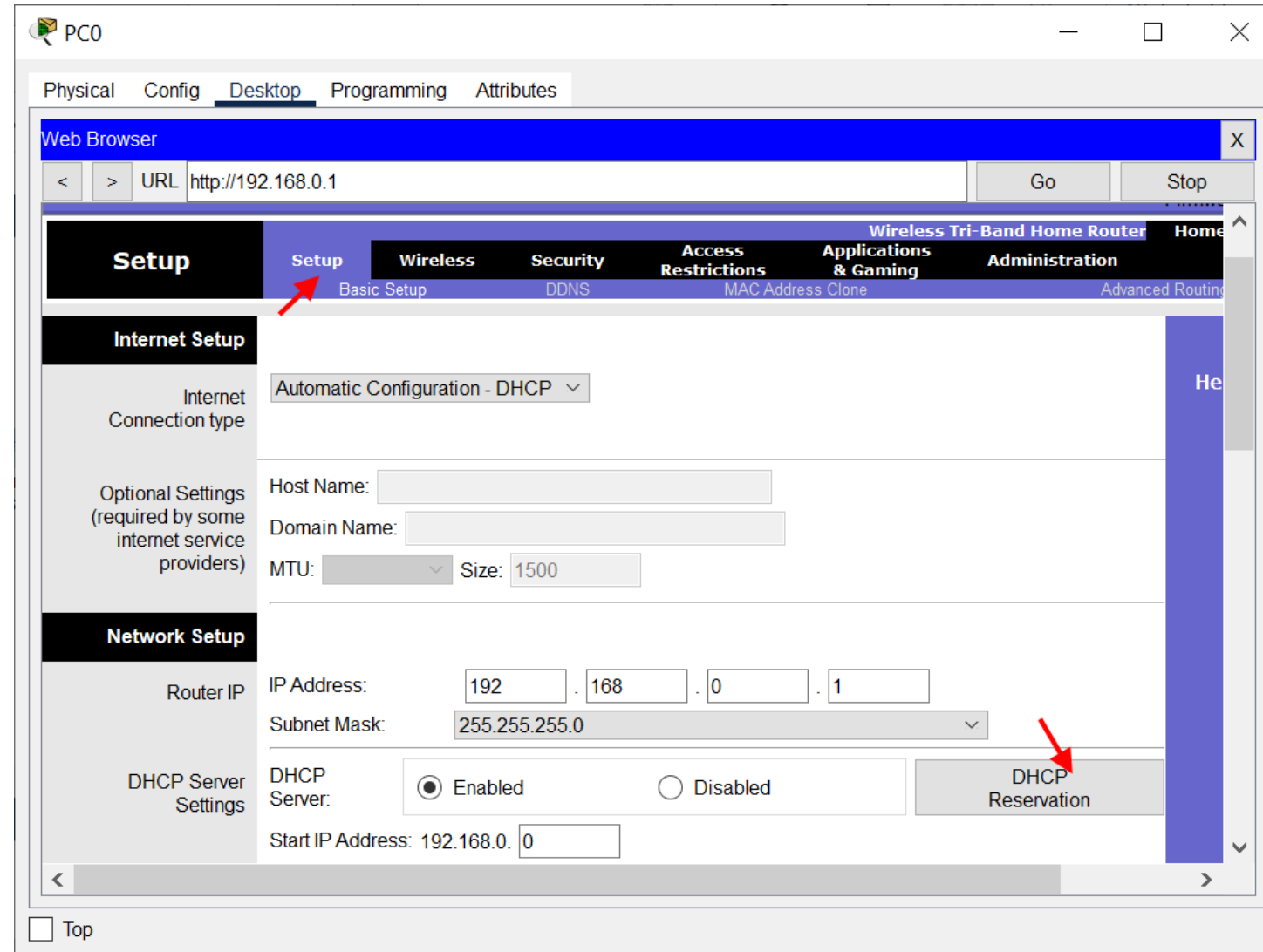
Configuração Access Point

- Dê um duplo clique no **Laptop-PT**. Clique em **Config, FastEthernet0**.
- Anote o endereço físico (MAC address) da interface **FastEthernet0** e marque a opção DHCP



Configuração Access Point

- Abra novamente o gerenciador web de **HomeRouter-PT-AC**, clique em Setup, **DHCP Reservation**



Configuração Access Point

- Configure a seguinte forma: Client Name: laptop, Assign IP Address: 192.0168.0.175, MAC Address: informe o MAC obtido anteriormente. Depois clique em **Add**, **Save Settings** e depois feche o gerenciador web de **HomeRouter-PT-AC**

DHCP Reservation

Firmware Version: v0.93.3

DHCP Reservation

Select Clients from DHCP Tables

Client Name	Interface	IP Address	MAC Address	Select
	LAN	192.168.0.100	00:02:16:0B:EE:69	<input type="checkbox"/>
	LAN	192.168.0.101	00:60:5C:71:07:19	<input type="checkbox"/>

Add Client

Manually Adding Client

Enter Client Name	Assign IP Address	To This MAC Address	
laptop	192.168.0.175	00:0D:BD:1D:5D:47	Add

Clients Already Reserved

Client Name	Assign IP Address	To This MAC Address	
laptop	192.168.0.175	00:0D:BD:1D:5D:47	Remove

Save Settings

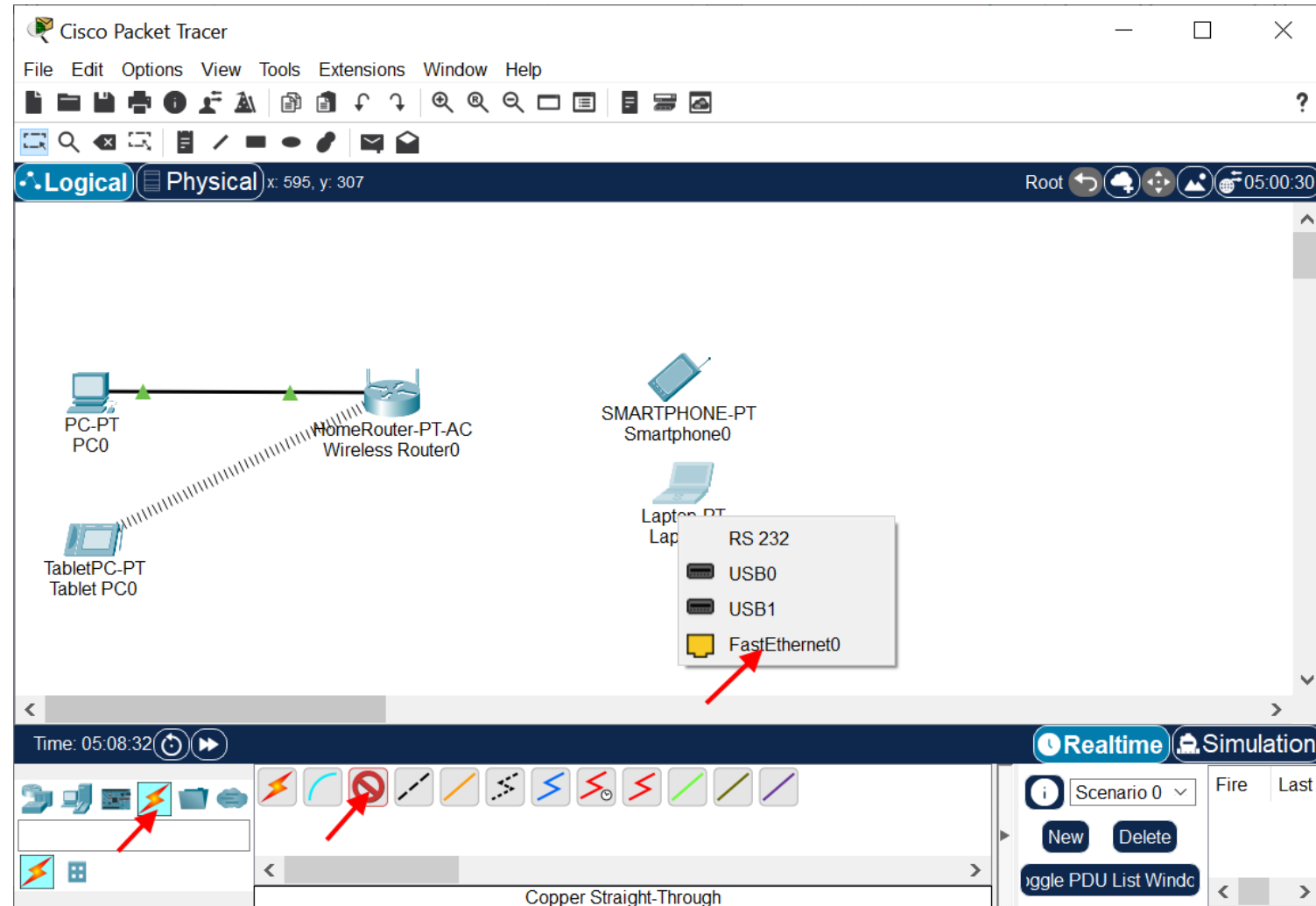
Cancel Changes

Close

Refresh

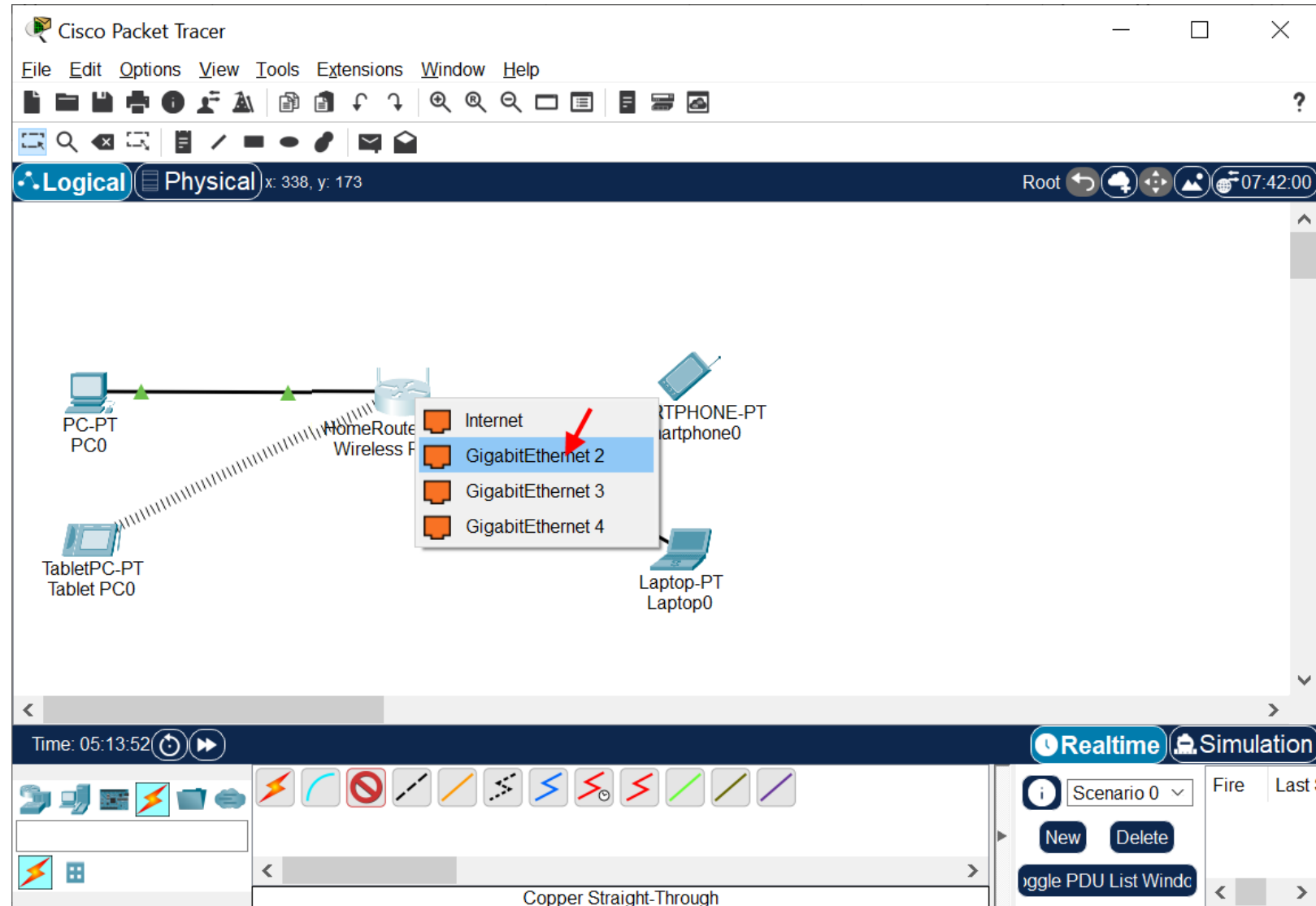
Configuração Access Point

- Conecte o **Laptop-PT** usando um cabo conectado à interface **FastEthernet0** no **HomeRouter-PT-AC**



Configuração Access Point

- No **HomeRouter-PT-AC** use a porta **GigabitEthernet2**



Configuração Access Point

- Aguarde alguns minutos e verifique se o endereço atribuído a **Laptop-PT** é 192.168.0.175

The image shows the Cisco Packet Tracer interface. The network topology includes a central router labeled 'HomeRouter-PT-AC Wireless Router0'. It is connected to 'PC-PT PC0' and 'TabletPC-PT Tablet PC0' on the left, and 'SMARTPHONE-PT Smartphone0' and 'Laptop0' on the right. A configuration window for 'Laptop0' is open, showing the following details:

Port	Link	IP Address	IPv6 Address
FastEthernet0	Up	192.168.0.175/24	<not set>
Bluetooth	Down	<not set>	<not set>

Additional configuration details for Laptop0:

- Device Name: Laptop0
- Device Model: Laptop-PT
- Gateway: 192.168.0.1
- DNS Server: 0.0.0.0
- Line Number: <not set>
- Physical Location: Intercity > Home City > Corporate Offi

The bottom of the interface shows a toolbar with various network components and a status bar indicating 'Copper Straight-Through'.